

$+$

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Complete if Known

Application Number	10/622,889
Filing Date	July 17, 2003
First Named Inventor	Huang et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	CL1941 US NA

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

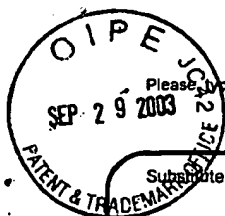
**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**



Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/622,889
Filing Date	July 17, 2003
First Named Inventor	Huang et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	CL1941 US NA

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ET		Niemeyer et al., Nanoparticles, Proteins, and Nucleic Acids: Biotechnology Meets Materials Science, Angew. Chem. Int. Ed. 40: pp. 4128-4158, 2001	
ET		Templeton et al., Water-Soluble, Isolable Gold Clusters Protected by Tiopronin and Coenzyme A Monolayers, Langmuir 15: pp. 66-76, 1999	
ET		Templeton et al., Redox and Fluorophore Functionalization of Water-Soluble, Tiopronin-Protected Gold Clusters, J. Am Chem. Soc. 121: pp. 7081-7089, 1999	
ET		Wei et al., Separation of nanometer gold particles by size exclusion chromatography, J. Chromatogr. A. 836, pp. 253-260, 1999	
ET		Wei et al., Shape Separation of Nanometer Gold Particles by Size-Exclusion Chromatography, Anal. Chem. 71: pp. 2085-2091, 1999	
ET		Schaaft et al., Isolation and Selected Properties of a 10.4 kDa Gold: Glutathione Cluster Compound, J. Phys Chem. 102: 10643-10646, 1998	
ET		Schnabel et al., Characterization of Colloidal Gold Nanoparticles According to Size by Capillary Zone Electrophoresis, J. Microcolumn Separations 9: 529-534, 1997	
ET		Whetten et al., Nanocrystal Gold Molecules, Adv. Mater. 8: pp. 428-433, 1996	
ET		Chen et al., Poly(N-vinylisobutylamide)-stabilized platinum nanoparticles: synthesis and temperature-responsive behavior in aqueous solution, Colloids and Surfaces A, 169: pp. 107-116, 2000	
ET		Wuelfing et al., Nanometer Gold Clusters Protected by Surface-Bound Monolayers of Thiolated Poly(ethylene glycol) Polymer Electrolyte, J. Am. Chem. Soc. 120: pp. 12696-12697, 1998	
ET		Chan et al., Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection, Science 281: 2016-2018, 1998	
ET		Mitchell et al., Programmed Assembly of DNA Functionalized Quantum Dots, J. Am. Chem. Soc. 121: 8122-8123, 1999	
ET		Napper, Steric Stabilization, J. Colloid. Interface. Sci. 58: pp. 390-407, 1977	

Examiner
Signature

ETSOg

Date
Considered

8/5/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

1449A/PTO

(use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	10/622889
--------------------	-----------

Filing Date	July 17, 2003
--------------------	----------------------

First Named Inventor	XUEYING HUANG
----------------------	---------------

Group Art Unit	1762
----------------	------

Examiner Name	UNASSIGNED
---------------	------------

Attorney Docket Number	CL1941USNA
------------------------	------------

U.S. PATENT DOCUMENTS

Repeat.

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

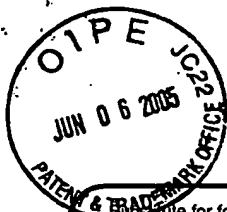
ET soy

Date Considered

8/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kind Codes of USPTO Patent Documents at www.uspto.gov, or MPEP 801.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/822889
Filing Date	July 17, 2003
First Named Inventor	XUEYING HUANG ET. AL.
Group Art Unit	1782
Examiner Name	UNASSIGNED
Attorney Docket Number	CL1941USNA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ET	1	E. SHEVCHENKO ET AL., Colloidal Crystals of Monodisperse FePt, Advanced Materials, Vol. 14(4):287-290, 02-19-2002	<input type="checkbox"/>
ET	2	DATABASE WPI WEEK 199325, DERWENT PUBLICATIONS LTD., LONDON, GB; AN 1993-197668, XP002321133, 10-14-1992, INST. HI-TECH CERAMICS	<input type="checkbox"/>
ET	3	PATENT ABSTRACTS OF JAPAN, Vol. 9, No. 259, 10-17-1985, 06-14-1985, Abstract	<input type="checkbox"/>
ET	4	INTERNATIONAL SEARCH REPORT DATED 03-30-2005, INTERNATIONAL APPLN. NO. PCT/US03/23228, INTERNATIONAL FILING DATE 07-23-2003, PAGES (7)	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	ETsoy	Date Considered	8/05/05
-----------------------	-------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.